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| Application/Co | ontrol No. |
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10/018,188 Examiner

Timothy V. Eley

Applicant(s)/Patent under Reexamination

KOYAMA ET AL.

Art Unit

3724

| √ | Rejected |
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| = | Allowed  |

| _ | (Through numeral)<br>Cancelled |
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| ÷ | Restricted                     |

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| 1 | Interference |

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| Cla             | Date   |                |  |              |  |  |              |  |                |                 |
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| Final           | Original   | 10/28/07       |  |              |  |  | •            |  |                |                 |
|                 | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10  | 7              |  |              |  |  |              |  |                |                 |
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|                 | 5  | П              |  |              |  |  |              |  |                |                 |
|                 | 6  | П              |  | _            |  |  |              |  |                |                 |
|                 | 7  | $\top$         |  |              |  |  |              |  |                | П               |
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|                 | 9  | -1-            | ┢  |              |  | -  | _            |  |                | Н               |
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|                 | 11   | Δ/             | _  | _            | <del>                                     </del> |  | -            | _  |                | H               |
| 1               | 10   | 1              | Ι-   |              | $\vdash$   | $\vdash$   | $\vdash$     | <del>                                     </del> |                | $\vdash$        |
| H               | 15   | M              |  | $\vdash$     | $\vdash$   | <del>                                     </del> | $\vdash$     | $\vdash$   |                | $\vdash \vdash$ |
|                 | 16   | #              | <del>                                     </del> |              | $\vdash$   | <del>                                     </del> | $\vdash$     | $\vdash$   |                | Н               |
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| $\vdash$        | HE   | H              | <del> </del>                                     | <del> </del> | $\vdash$   | $\vdash$   | $\vdash$     | <del> </del>                                     | -              | Н               |
| +               | 115  | H              | _  |              | ├  |  |              | ├  | _              | -               |
| -               | 110  | H              | _  | -            |  | -  | <del> </del> |  |                |                 |
| <del></del>     | 100  | ₩              | ⊢  |              | -  | _  |              | <u> </u>   |                |                 |
| Н,              | 119  | ₩              | <u> </u>   |              | <u> </u>   | _  |              | _  |                |                 |
| $\sqcup$        | NO.  | 11             | <u> </u>   | <u> </u>     |  |  |              | ldash  |                | L               |
| $\vdash$        | <u> 11</u>   | W_             | _  |              |  | _  |              | <u> </u>   | <u> </u>       |                 |
| $\perp$         | 172  | Щ              |  |              | _  | _  |              |  | _              | Щ               |
| Ш               | 233  | Щ              |  |              |  |  |              |  |                |                 |
| Ш               | 214  | V              |  |              | _  |  |              |  | L              |                 |
| $\coprod$       | 25   | Ш              |  |              | L  | _  |              |  |                |                 |
| 1_              | _246   |                |  |              |  |  |              |  |                |                 |
| 1               | 27   | +              |  |              |  |  |              |  |                |                 |
|                 | 28   | ΙÍ             | _  |              |  |  |              | Г  |                |                 |
|                 | 29   | П              |  |              |  |  |              | Г  |                |                 |
|                 | 30   | П              |  |              |  |  |              | Г  |                |                 |
|                 | 31   | П              |  |              |  | $\vdash$   |              |  |                |                 |
|                 | 12<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24<br>25<br>26<br>27<br>28<br>29<br>30<br>31<br>32<br>33 | П              |  |              |  | <u> </u>   | Г            |  | Г              | П               |
|                 | 33   | $\sqcap$       | $\vdash$   |              |  | $\vdash$   |              | $\vdash$   |                | Н               |
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|                 | 34<br>35   | +              | _  | Г            |  | Т  | $\vdash$     | <del> </del>                                     |                | Н               |
| $\vdash$        | 36   | Γ,             |  | Г            | $\vdash$   | <del>                                     </del> | $\vdash$     | $\vdash$   | $\vdash$       | Н               |
| $\vdash$        | 37   | $\vdash$       | $\vdash$   |              | $\vdash$   | $\vdash$   | <u> </u>     |  | $\vdash$       | H               |
|                 | 37<br>38   |                | $\vdash$   | _            | _  | $\vdash$   | $\vdash$     | $\vdash$   |                | $\vdash$        |
| $\vdash$        | 39   |                | $\vdash$   | $\vdash$     | —  | <del> </del>                                     | $\vdash$     | $\vdash$   | $\vdash$       | Н               |
| -               | 40   | <del>  -</del> | $\vdash$   | -            |  | $\vdash$   | <u> </u>     | $\vdash$   |                | Н               |
|                 | 41   | -              |  | -            | $\vdash$   | $\vdash$   | $\vdash$     | ├  | $\vdash$       | Н               |
|                 | 42   | <del> </del>   |  |              | $\vdash$   | -  | $\vdash$     | <del> </del>                                     | <u> </u>       | Н               |
| <u> </u>        | 42<br>43   |                | $\vdash$   | $\vdash$     | $\vdash$   | $\vdash$   | <u> </u>     | $\vdash$   | -              | Н               |
| <b></b>         | 43   | -              | $\vdash$   | -            |  | $\vdash$   | H            | -  | <del> </del> - |                 |
|                 | 45   | $\vdash$       | $\vdash$   | -            |  | $\vdash$   | $\vdash$     | $\vdash$   | <u> </u>       |                 |
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| <u> </u>        | 46   |                |  |              | <u> </u>   | $\vdash$   | $\vdash$     | <u> </u>   | <del> </del>   | Щ               |
|                 | 47   |                | <del> </del>                                     |              | <u> </u>   | $\vdash$   | <u> </u>     | <u> </u>   | <u> </u>       | Ш               |
| $\vdash \vdash$ | 48   | <u> </u>       |  | <u> </u>     | <u> </u>   | <u> </u>   | L_           | <u> </u>   |                | Ш               |
|                 | 49   |                | _  | <u> </u>     |  | <u> </u>   |              | L  | <u> </u>       | Ш               |
|                 | 50   | L_             |  |              |  | <u> </u>   |              | L  |                | Ш               |

| 51         52           53         54           55         56           57         58           59         60           61         62           63         64           65         66           67         68           69         70           71         72           73         74           75         76           77         78           79         80           81         82           83         84 |   |               |              | e             | Date         |             |                                     |              | Γ-           | aim | Cla      |
|---|---|---------------|--------------|---------------|--------------|-------------|-------------------------------------|--------------|--------------|-----|----------|
| 51         52         53         54         55         56         57         58         59         60         61         62         63         64         65         66         67         68         69         70         71         72         73         74         75         76         77         78         79         80         81         82         83         84                                 |   | $\overline{}$ |              | Π             |              |             | Π                                   |              |              | ı   |          |
| 54<br>55<br>56<br>57<br>58<br>59<br>60<br>61<br>62<br>63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84  |   |               |              |               |              |             |                                     |              |              |     | Finat    |
| 54<br>55<br>56<br>57<br>58<br>59<br>60<br>61<br>62<br>63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84  |   |               |              |               |              |             |                                     |              |              | 51  |          |
| 54   55   56   57   58   59   60   61   62   63   64   65   66   67   68   69   70   71   72   73   74   75   76   77   78   79   80   81   82   83   84   84   84   84   84   84   84  |   |               |              |               |              |             |                                     |              |              | 52  |          |
| 54   55   56   57   58   59   60   61   62   63   64   65   66   67   68   69   70   71   72   73   74   75   76   77   78   79   80   81   82   83   84   84   84   84   84   84   84  |   |               |              |               |              |             |                                     |              |              | 53  |          |
| 56   57   58   59   60   61   62   63   64   65   66   67   68   69   70   71   72   73   74   75   76   77   78   79   80   81   82   83   84   84   84   84   84   84   84  |   |               |              |               |              |             |                                     |              |              | 54  |          |
| 57<br>58<br>59<br>60<br>61<br>62<br>63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84  |   |               |              |               |              |             |                                     |              |              | 55  |          |
| 58<br>59<br>60<br>61<br>62<br>63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84  |   |               |              |               |              |             |                                     |              |              | 56  |          |
| 59       60       61       62       63       64       65       66       67       68       69       70       71       72       73       74       75       76       77       78       79       80       81       82       83       84   |   |               |              |               | L_           |             | <u> </u>                            |              |              | 57  |          |
| 60<br>61<br>62<br>63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84  | _ |               |              | _             |              | <u> </u>    | $oxed{oxed}$                        | <u> </u>     |              |     |          |
| 61<br>62<br>63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84  |   |               |              | _             | _            |             | <u> </u>                            | <u> </u>     |              | 59  |          |
| 62<br>63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84  |   |               |              | _             |              |             | <u> </u>                            | _            |              | 60  | <u> </u> |
| 63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84  |   |               | _            | _             | _            | _           | <u> </u>                            | <u> </u>     | _            | 61  | $\vdash$ |
| 65<br>66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84  |   |               |              | <u> </u>      | <u> </u>     | <u> </u>    | <u> </u>                            | <u> </u>     | <u> </u>     | 62  |          |
| 65<br>66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84  |   | _             |              |               | <u> </u>     | <u> </u>    |                                     | <u> </u>     | <u> </u>     | 63  | $\vdash$ |
| 66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84  |   |               | Н            | $\vdash$      | $\vdash$     | $\vdash$    | $\vdash$                            | <u> </u>     | $\vdash$     | 65  |          |
| 67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84  |   |               | <del> </del> | <u> </u>      |              | <u> </u>    | H                                   | <u> </u>     | -            | 66  | $\vdash$ |
| 68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84  | _ |               | $\vdash$     | <u> </u>      | $\vdash$     | $\vdash$    | $\vdash$                            | <u> </u>     | $\vdash$     | 67  | -        |
| 69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84  |   |               | -            |               | <del> </del> | -           | -                                   | -            | _            | 68  | $\vdash$ |
| 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84  |   |               |              |               |              | ┝           |                                     |              |              | 60  | -        |
| 71  |   |               | -            | <del> </del>  | <del> </del> | $\vdash$    | $\vdash$                            | <del> </del> |              | 70  | -        |
| 74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84  | _ |               |              |               | $\vdash$     | $\vdash$    |                                     |              | $\vdash$     | 71  | -        |
| 74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84  | _ |               |              | _             |              | H           |                                     | <u> </u>     | $\vdash$     | 72  |          |
| 74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84  |   |               |              | _             | $\vdash$     | $\vdash$    | $\vdash$                            | _            | ┢            | 73  |          |
| 76  | _ |               |              | _             | _            | _           | _                                   | _            | <del> </del> | 74  |          |
| 76  | _ |               |              |               | <b></b>      | _           |                                     | _            | _            | 75  |          |
| 77  | _ |               |              | $\overline{}$ |              | _           | $\vdash$                            |              |              | 76  |          |
| 78  |   |               |              |               |              |             |                                     |              |              | 77  |          |
| 79<br>80<br>81<br>82<br>83<br>84  | _ |               |              |               |              |             |                                     |              | Г            | 78  |          |
| 81<br>82<br>83<br>84  |   |               |              |               |              |             |                                     |              |              | 79  |          |
| 82<br>83<br>84  |   |               |              |               |              |             |                                     |              |              | 80  |          |
| 84  |   |               |              |               |              |             |                                     |              |              | 81  |          |
| 84  |   |               |              |               |              |             |                                     |              |              | 82  |          |
| 84  |   |               |              |               |              |             |                                     |              |              | 83  |          |
|   |   |               |              |               |              |             |                                     |              |              | 84  |          |
|   |   |               |              |               |              | Ш           |                                     |              |              | 85  |          |
| 86  |   | _             |              | <u> </u>      | _            | <u> </u>    | L_                                  |              |              |     | ļ        |
| 87  |   |               |              |               |              |             | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | _            |              | 87  |          |
| 88  |   |               |              |               |              |             | <u> </u>                            | _            |              | 88  | <u> </u> |
| 89  |   |               |              | <u> </u>      |              |             | $\vdash$                            |              | Щ            | 89  |          |
| 90  |   |               |              | <u> </u>      |              |             | $\vdash$                            | <u> </u>     |              |     |          |
| 91  |   |               |              | <u> </u>      | H            | Н           | $\vdash$                            | <u> </u>     | H            | 91  |          |
| 92  |   |               |              | <u> </u>      | <b>-</b>     | <del></del> |                                     | <u> </u>     |              |     |          |
| 93  |   |               |              | $\vdash$      | <u> </u>     |             | -                                   | _            | $\vdash$     |     | -        |
| 94 95   |   | _             |              | $\vdash$      | <u> </u>     | Н           | $\vdash$                            | $\vdash$     | $\vdash$     | 94  |          |
| 96  |   |               |              | $\vdash$      | $\vdash$     | $\vdash$    | $\vdash$                            | $\vdash$     | $\vdash$     |     |          |
| 97  | _ |               |              | $\vdash$      | H            |             | $\vdash$                            | $\vdash$     |              | 97  | $\vdash$ |
| 98  | _ |               |              | $\vdash$      | Н            | Н           | $\vdash$                            | $\vdash$     | $\vdash$     | 98  | $\vdash$ |
| 99  | _ | _             | _            | $\vdash$      | _            | $\vdash$    | $\vdash$                            | <u> </u>     | $\vdash$     |     |          |
| 100   |   |               |              | $\vdash$      |              |             |                                     |              |              | 100 |          |

| Cla      | aim                             |                |  |              | [        | Date         | е  |          |              | $\neg$          |
|----------|---------------------------------|----------------|--|--------------|----------|--------------|--|----------|--------------|-----------------|
|          |                                 |                |  |              |          |              |  |          |              |                 |
| Final    | Original                        |                |  |              |          |              |  |          |              |                 |
|          | 101                             | _              | _  | _            |          |              |  |          |              | Н               |
|          | 102                             |                |  |              |          |              | Т  |          |              | П               |
|          | 102<br>103                      |                |  |              |          |              | <u> </u>   |          |              |                 |
|          | 104                             |                |  |              |          |              |  |          |              |                 |
|          | 105<br>106                      |                |  |              |          |              |  |          |              |                 |
|          | 106                             |                |  |              |          |              |  |          | L            |                 |
|          | 107                             | _              | _  |              | <u> </u> |              | <u> </u>   | _        |              | Щ               |
|          | 108<br>109                      | <u> </u>       | <u> </u>   | <u> </u> _   | <u> </u> | <u> </u>     | _  | _        | <u> </u>     | Н               |
|          | 109                             | ļ              |  | <del> </del> |          | _            |  | _        | _            | Н               |
|          | 110                             | <del> </del>   |  | -            | -        | H            | _  |          | -            | -               |
|          | 111<br>112                      | <del> </del> — | _  |              | -        | -            | _  | $\vdash$ | ├            | Н               |
|          | 112                             | _              |  | -            |          |              |  | -        | ├-           | $\vdash$        |
|          | 113<br>114                      | H              |  | <del> </del> | ├─       | ┝            | <del>                                     </del> | -        | <del> </del> | Н               |
|          | 115                             | $\vdash$       | _  | Н            | $\vdash$ |              |  | $\vdash$ | <del> </del> | H               |
|          | 116                             | _              |  | $\vdash$     | _        |              |  | <u> </u> |              |                 |
|          | 116<br>117<br>118               |                |  |              |          |              |  |          | _            |                 |
|          | 118                             |                |  |              |          |              |  |          |              |                 |
|          | 119<br>120<br>121               |                |  |              |          |              |  |          |              |                 |
|          | 120                             |                |  |              |          |              |  |          |              |                 |
|          | 121                             |                |  |              |          |              |  |          |              |                 |
|          | 122                             | <u> </u>       |  |              |          | <u> </u>     |  |          |              |                 |
|          | 122<br>123<br>124<br>125<br>126 | ļ              |  | _            |          |              | _  | _        | _            | Щ               |
|          | 124                             | _              |  |              | <u> </u> |              | <u> </u>   | _        | <b> </b>     |                 |
| <u> </u> | 125                             | <u> </u>       |  | _            | ├        | <u> </u>     | _  | _        | <del> </del> |                 |
|          | 120                             | ⊢              |  |              | $\vdash$ | <u> </u>     |  | _        | -            |                 |
| <u> </u> | 127<br>128                      | ┝              |  |              | -        | $\vdash$     |  |          |              |                 |
|          | 129                             |                |  |              |          |              |  |          | $\vdash$     |                 |
|          | 130                             |                |  |              | $\vdash$ | $\vdash$     | -  | _        | ┢            | -               |
|          | 130<br>131                      |                | <del>                                     </del> |              |          |              |  |          |              |                 |
|          | 132                             |                |  |              |          |              | _  |          |              |                 |
|          | 133                             |                |  |              |          |              |  |          |              |                 |
|          | 133<br>134                      |                |  |              |          |              |  |          |              |                 |
|          | 135                             |                |  |              |          |              | $\Box$   |          |              |                 |
| ļ        | 136<br>137                      | <u> </u>       |  |              |          | $oxed{oxed}$ | L.   | L        |              | Ш               |
|          | 137                             |                | <u> </u>   |              |          | _            | <u> </u>   | _        |              | Щ               |
|          | 138<br>139                      |                | <u> </u>   | _            |          |              | $\vdash$   |          |              | $\vdash \vdash$ |
|          | 139                             |                | $\vdash$   |              |          | <u> </u>     | <del> </del>                                     | <b></b>  | <u> </u>     | $\vdash \vdash$ |
|          | 141                             | $\vdash$       | H  |              |          | H            |  | <u> </u> | -            | H               |
|          | 142                             |                | <u> </u>   |              | H        | $\vdash$     | -  | _        |              | $\vdash$        |
|          | 143                             | -              | -  | -            |          | H            | $\vdash$   |          | <del> </del> | $\vdash \vdash$ |
|          | 144                             |                | <del> -</del>                                    | -            |          | $\vdash$     | $\vdash$   | -        |              | $\vdash \vdash$ |
|          | 145                             |                | _  | ÷            |          |              |  |          | _            | $\vdash$        |
|          | 146                             |                |  |              |          | П            |  | $\neg$   |              | П               |
|          | 147                             |                |  |              | _        |              |  |          |              |                 |
|          | 148                             |                |  |              |          |              |  |          |              |                 |
|          | 149                             |                |  |              |          |              |  |          |              |                 |
|          | 150                             |                |  |              |          |              |  |          |              |                 |